

Title (en)
OIL OR GAS BURNER FOR HOT GAS GENERATION

Publication
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Application
EP 85109292 A 19850724

Priority
DE 3430010 A 19840816

Abstract (en)
[origin: US4629414A] The invention relates to a hot-gas generating burner comprising a nozzle discharging a fuel jet which then enters a mixing tube, and an orifice plate surrounding the outlet of the nozzle. The casing of the burner is divided by the orifice plate into an upstream-disposed precombustion chamber which includes the nozzle, and a downstream combustion chamber which contains the mixing tube. The orifice has a central passage for the fuel jet which is discharged from the nozzle and a number of openings surrounding the passage. In order to reduce the noise concomitant with the operation of the burner, the spacing between the peripheries of the neighboring openings equals at least 50% of the diameter of the openings, and/or the openings in the orifice plate are associated with at least one air duct in the direction of flow.

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F23D 11/40

IPC 8 full level
F23D 11/24 (2006.01); **F23D 11/40** (2006.01)

CPC (source: EP US)
F23D 11/40 (2013.01 - EP US)

Citation (examination)
• DE 2918416 A1 19801113 - DEUTSCHE FORSCH LUFT RAUMFAHRT
• DE 2700671 A1 19780720 - DEUTSCHE FORSCH LUFT RAUMFAHRT

Cited by
US5433601A; WO8808503A1; WO9319326A1

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US 4629414 A 19861216; AT E34447 T1 19880615; CA 1259557 A 19890919; DE 3430010 A1 19860227; DE 3430010 C2 19871112; DE 3562819 D1 19880623; DK 160642 B 19910402; DK 160642 C 19910902; DK 370785 A 19860217; DK 370785 D0 19850815; EP 0175875 A1 19860402; EP 0175875 B1 19880518; FI 853128 A0 19850815; FI 853128 L 19860217; FI 86106 B 19920331; FI 86106 C 19920710; JP H0240924 B2 19900913; JP S61125511 A 19860613; NO 160314 B 19881227; NO 160314 C 19890405; NO 853217 L 19860217

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